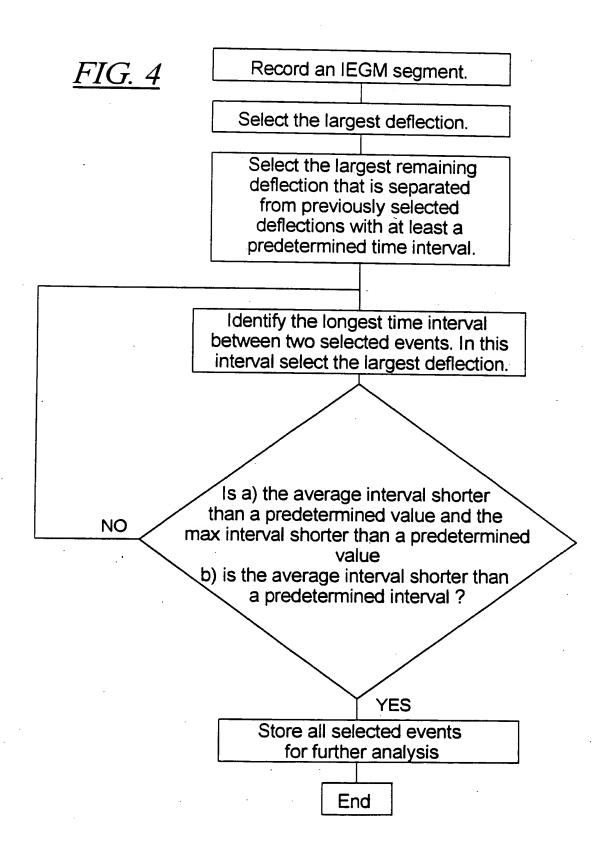
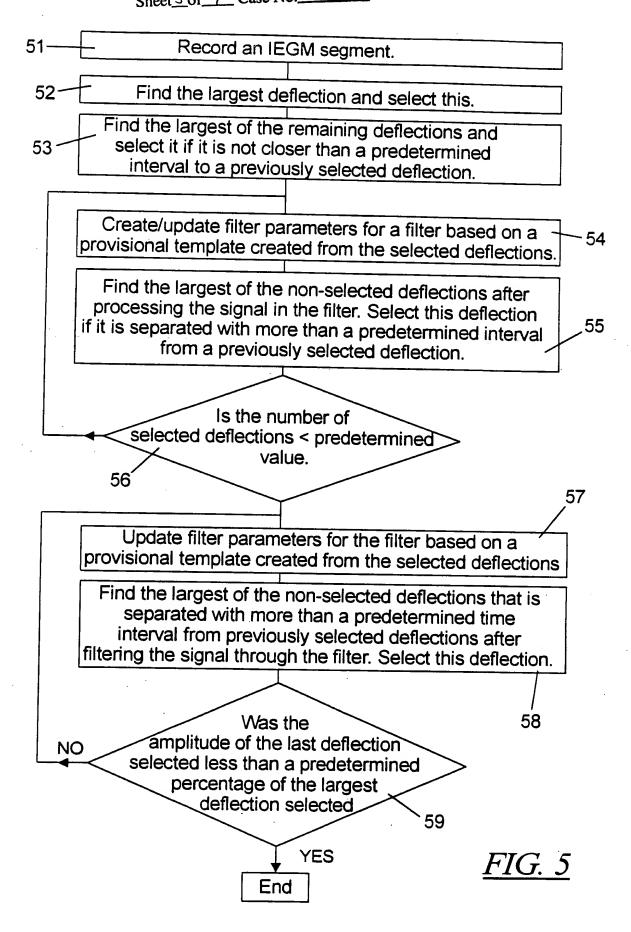


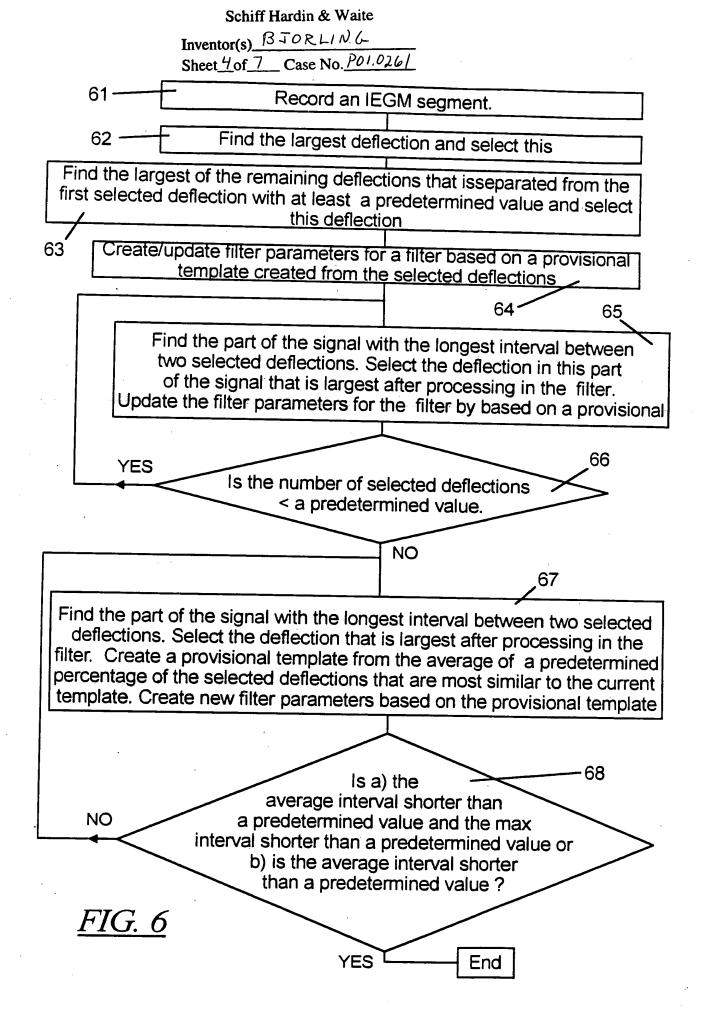
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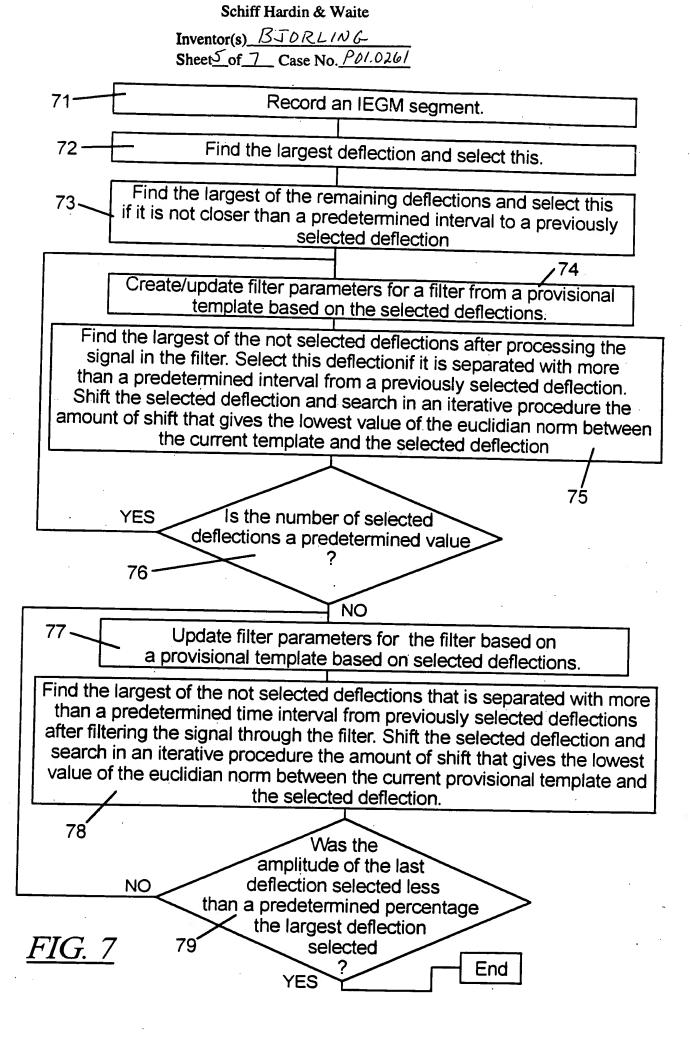
Inventor(s) BJORLING
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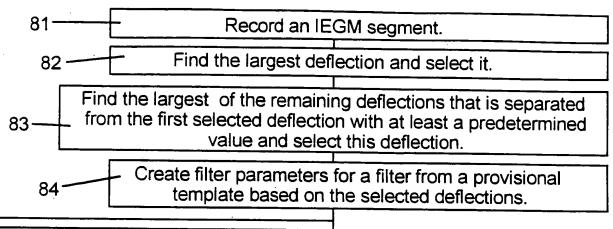
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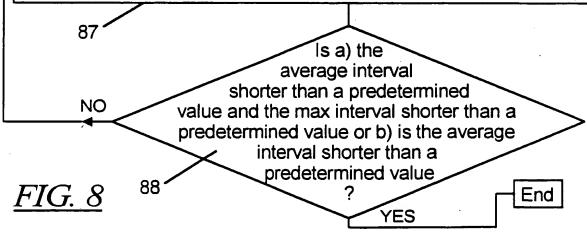
Find the part of the signal with the longest interval between two selected deflections. Select the deflection in this part of the signal that is largest after processing in the filter. Shift the selected deflection and search in an iterative procedure the amount of shift that gives the lowest value of the Euclidian norm between the current provisional template and the selected deflection. Update the template for the creation of the parameters for the filter. Create the provisional template from the average of the selected deflections.

Is the number of selected deflections < a predetermined value ?

NO

Ind the part of the signal with the longest interval between two

Find the part of the signal with the longest interval between two selected deflections. Select the deflection that is largest after processing in the filter. Shift the selected deflection and search in an iterative procedure the amount of shift that gives the lowest value of the euclidian norm between the current template and the selected deflection. Update the provisional template for creation of the filter parameters. Create the provisional template from the average of a predetermined percentage of the selected deflections that are most similar to the current template.



Inventor(s) BJORLING Sheet 7 of 7 Case No. P01.0261 Create a template as the average of all selected deflections. Search lowest value of the Euclidian distance between each deflection and the current template by shifting the deflection to the left or to the right in a predetermined range until the lowest value is found. 92 Create a new template as the average of all selected deflections after shifting. 93 <u>FIG.</u> 9 End *FIG. 10* 101 Select a first set of initial class centers. Assign each of the selected deflections to the class it is closest to. 102 Calculate new class centers based 103 on average of deflections in the respective. class. Assign each of the selected deflections to the class it is closest to. 104 105 Did any deflection change class 106 Classification ready. End

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